Mr. Alpert’s

Introduction to Harmonic Motion

PowerPoint Questions

Use lined paper to answer the following questions while you watch the powerpoint.

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In the first slide, the motion of a moving spring is being translated into a sine wave. Explain the relationship between the sine wave and the up and down motion of the spring.
2. Compare and contrast mechanical and electromagnetic waves
3. How do you change the speed of a wave?
4. From your reading, what types of waves are found in the oceans?
   1. Where are they found?
5. How is energy carried through a wave?
6. Describe the motion of particles in a wave (why doesn’t matter move in a wave?)”
7. Define transmission, absorption and reflection as directed by the slide.
8. What happens when two waves are “in phase” ?
9. What happens when they are “out of phase” ?
10. Look up “polarizing” light in your text book. Write a caption for this slide as it is incomplete.
11. Describe a standing wave.
12. Look up Young’s double slit experiment in your textbook.  
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